CHENNAI POWER AND DESALINATION TRAINING INSTITUTE

www.cpdti.in

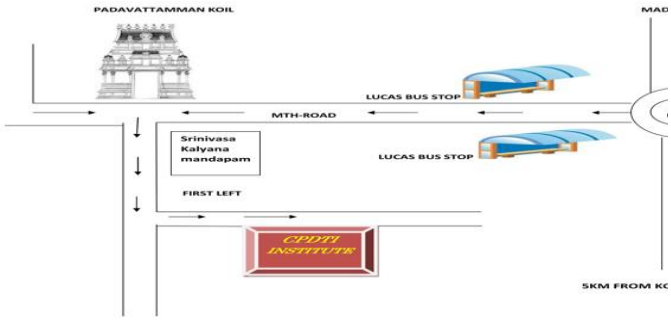
Training Courses for…

- Engineering Degree holders in Mechanical, Electrical and Instruments Engineering etc.,
- Diploma and ITI holders
- Company Professional
- Engineering College and Polytechnic Students

Training Centre Location

CHENNAI POWER AND DESALINATION TRAINING INSTITUTE
Address: 40A, Padavattamman Koil 1st street, Padi, Chennai-60050.
Mobile: +91 9750172525/8056067240 +91-8056067240

Website: www.cpdti.in **Email id: chennai.power.padi@gmail.com**



ABOUT US

- **CPDTI is a CEA (Central Electricity Authority) recognized Institute, Ministry of Power, Government of India.**
- **It is an ISO 9001 certified Institute**
- **Training is provided by highly experienced Power Plant Professionals using state of the art Training Tools and Equipments.**

Our Aim

- **To develop Technical Human Resource for Energy Sector requirements as per Central Electricity Authority (CEA) guidelines**
- **To cater to the skill demands of Power & many other process industries like (Sugar, Refinery, Petro Chemical, Paper, Gas Processing, Water treatment, etc.) by developing Technical skills for young Engineers**
- **To act as a link between Academic Institutes & Industry by suitably imparting Technical Skills Training to Engineering students to make students either EQUIPMENT or SYSTEM or INDUSTRY READY (depending on the modules taken for training) by the time they pass out from college**

Training Course Details

- **One year Post Graduate Diploma in Power plant Technology**
- **6 Month Power and Desalination Plant Maintenance course**
- **3 Month Power and Desalination Plant maintenance helper course**
- **EHS (Environment, Health and Safety) training course**

Additional Skills Training

- **Practical Workshop**
- **Plant visits**
- **English basic communication**
- **Computer MS office application**
- **Industrial management lessons**
- **Mock Interviews**
- **Training at various Government centres like ATI (Advanced Technical Training Institute), Chennai etc.,**
- **EHS lessons**
- **GPI – Learn Connect is Web based very powerful Audio – Visual lesson in all aspects of Power plant Erection, Commissioning & Operations.**
- **CPDTI Lessons.com is web based audio – visual Training with all practical information of power plants like P&ID, SOP, Permit system, HSE, OSHA etc.**

- **Maintenance Simulator with sequential explanation of maintenance of all rotating equipments and static equipments (210MW/ 600MW – Thermal Power plant operation simulator)**

Industrial Training Details

- **Various Technical Training and Workshop on tailored made topics for O&M personnel in various Industries.**
- **Refresher training program – Short term and Long term**
- **Consultancy for Plant performance improvement and cost effective O&M**
- **Trouble shooting of Critical Problems**

The Training Done on BIAL Airport, Bangalore (Bangalore international airport limited)

The Training done for KOSTI Power Plant, SUDAN Employees at CPDTI, Chennai

Field Visit by Kosti Power Plant, Sudan Employees during their Training at CPDTI

OFFERING TOPICS DETAILS:

- Industrial Safety, EHS policies and Procedures
- Effective Operation of the plant
- Permit system and Procedures
- Performance calculation of Power plant
- Electrical apparatus – Safe Handling
- Protection and Interlocks

- Switching/Isolation procedures
- Safe start up / Shutdown of plant
- RCFA in Power plant
- Risk analysis in Maintenance
- BTG operating procedure
- Maintenance of Transformer, Breaker, Generator, Motor etc .,
- Fire fighting techniques
- Computerized Maintenance & Management system
- Electrical Circuits and Wiring diagrams.
- LV & HV panels and its Maintenance.
- Protection relay principles and testing.
- Safe Handling of Blackout situation with Electric backup and DG set

Our training highlights on the equipment constructions features, the operation know-how, the maintenance procedures, the spares & tools needed, the safety precautions required etc.,

Our training focuses on real life industrial equipment/systems operation & maintenance problems and the solution for the same.

We certify those who attend the training with our CEA approved certification that can add the merits and value of their service in Industry.

We give a brief course handout outlining what they have learned, which can be of a handy future reference.

Our training focuses with audio & video presentation to utilize all the modes of learning (through Reading, Hearing & Seeing).

Our training is of short duration(either 1 or 2 days) depending on the topic chosen and will be conducted in the Industry/Company premises itself.

Colleges Training Details

- **Tailored made Workshop training for Engineering College Students for Short Time duration**
- **Offering Internship programs for 1 year Power and Desalination Plant Maintenance course**
- **Technical skills training in the Campus / in Our facilities**
- **On Job Training abroad**
- **EHS (Environment, Health and Safety) training course**
- **Having MOU with different Colleges for conducting Course Programs and Knowledge Sharing**
- **Attending various Technical Seminar and Presentation from CPDTI**
- **Deputation of Trained Technical staff from CPDTI to various Colleges on need basis**

- **Refresher course conducted at Vellore Engineering college, Mechanical final year batch - 120 nos. students in Tamilnadu.**

MECHANICAL TOPICS

- Steam Power Plant & its Systems
- Gas Power Plant & its Systems
- Industrial Valves & Piping Maintenance
- Industrial Pumps – Opn. & Maintenance
- Alignment Techniques
- Bearings & its Maintenance
- Packing & Mechanical Seals Maint.
- Heat Exchangers & its Maintenance
- Air Compressors & its Opn & Maint.
- Precision Measurements
- Steam Turbine Constn., Opn & Maint.
- Gas Turbine Constn., Opn & Maint.
- HVAC - Operation & Maintenance
- Industrial Fire Fighting Systems
- Rigging & Scaffolding Techniques
- Rotating Equipment Maintenance

ELECTRICAL TOPICS

- Motor Maintenance & Troubleshooting
- Motor Principles & Construction
- Industrial Battery Systems – Maint.
- Circuit Breakers Maintenance
- Protection Relays Principles & Testing
- LV & HV Panels & its Maintenance
- Rectifiers & Inverters – Opn. & Maint.
- Electrical Circuit & Wiring Diagrams
- Electrical Testing Devices
- Generator Operation & Maintenance
- MOV – Opn., Maint. & T.shooting
- Electrical Equips – Maint. & T.shooting
- Computerized Maint. Mgmt. System
- Electrical basic units & calculations
- Electrical backup & DG Set
- EHS policies & Procedure
- Handling of Explosives & Acids
- Safe Working in Elec. & Mech. Systems

Multinational Recruiter of our Trainees

Our Trained Students are getting 100% Placement in abroad GCC Countries through our Sister Companies to engage their Jobs in various Multi National Companies like:

- GE Power company, Bahrain, UAE, Kuwait
- Al Dur Power & Water company, Bahrain, (1060MW, 40MIGPD)
- Hidd Power Company (HPC), Bahrain (1090MW, 90MIGPD)
- GAMCO - Bahrain
- SULB - Bahrain
- ALBA - Bahrain

|In Plant Trainings

On regular Curriculum of Training, we take our Students to different Plants and Industries to get the complete Knowledge of Plant systems, Plant Equipments and O&M procedures etc.,

| Trainings Roles

Group Companies

Power Tech Development W.L.L – Bahrain :

- Having major Power Plants O&M Contracts
- Providing Plants Maintenance Manpower Supply
- To provide Shut down maintenance to **HIDD power company, GARAMCO & GE – Bahrain**
- Providing Power Plant and STP-EPC Contracts

Global Powertech Testing and Contracting L.L.C, UAE

- Powerplant O&M Contracts
- Power Plant Maintenance Manpower supply
- Online Testing and Calibration of Safety Valves (Trevi Test)

Mrabee Tech – Saudi Arabia

- To provide Shut down maintenance for **General Electric – Saudi Arabia** which has nearly 400 GE-Made Gas Turbines

Steam Power Contracting – Qatar

- Works in co-ordination with Star Metropolis
- Provides Shut Down Maintenance for **Qatar Fertilisers**

Power Tech Testing & Services - India

- Online Safety Valves Testing and Calibration (Trevi Test)
- Approved by TUV SUD USA
- Calibrated by Honey well

What We are Different

- Our Technical workshop are designed to focus especially on Technical Knowledge & Skills required by Industries
- We use real industrial equipment audio & video presentations for better understanding of practical technical aspects
- We focus on equipment construction details, operation & maintenance know-how, erection & commissioning, trouble shooting, best practices to improve equipment performance, improved designs for performance & reliability and safe working practices depending on the training module
- Our workshop is aimed to add value to the existing knowledge & skill level of the student that will help them to confidently face interviews by industries and to adapt easily in industry

CHENNAI POWER AND DESALINATION TRAINING INSTITUTE (CPDTI)

Group Company Director and Mentor

Mr. Mohammed Sultan

TRAINING AWARDS CEREMONY

Training Awards Presentation Ceremony held at Chennai Head Office for M/s Kosti Power Plant in Sudan.

CREDENTIALS

ISO CERTIFICATION

CERTIFICATE OF REGISTRATION

TNV
United Kingdom

This is to certify that the Quality Management System of

Power Tech Developments W.L.L.

No.40A, 10th Street, TVS Nagar, Padi,
Chennai - 600050, Tamil Nadu, India

has been assessed and registered by TNV UK Ltd. As conforming to the requirements of:

ISO 9001 : 2015

For the following Scope

"Testing of Safety Valves - Accu Test System, Power & Desalination Operation & Maintenance (O & M), Desalination Training and Manpower on Contractual basis, Plant Erection & Process Design"

Certificate Number : 1704010910103
Issue Date : 01st Apr. 2017
Certificate Expiry Date : 31st Mar. 2020
1st Surveillance: 01st Mar. 2018
2nd Surveillance: 01st Mar. 2019

ISO 9001 AB-CAB ACCREDITED

TNV UK TNV UK TNV UK TNV UK

OHSAS CERTIFICATION

Certificate of Registration

Certificate No: 160215039102

This is to certify that the Occupational Health and Safety Management System of

Power Tech Development W.L.L

Head Office: 40A, 10th Street, TVS Nagar, Padi,
Chennai – 600050. Tamil Nadu, India.

Has been assessed and found to be in accordance with the requirements of standard detailed below

OHSAS 18001:2007

This Certificate is valid for the following scope

"Contractor for Erection & Construction Work for Power & Desalination Plant as per Client Requirement and Associated Manpower Supply"

Initial Registration Date	15th Feb. 2016	Issue Date	15th Feb. 2016
1st Surveillance on or before	15th Jan. 2017	Valid Until	14th Feb. 2019
2nd Surveillance on or before	15th Jan. 2018		

To check validity of the certificate please visit www.tuvindia.org or call at given numbers

IAS-ANZ

Managing Director
TNV Certification Pvt Ltd.